

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-32. (Canceled)

33. (Currently Amended) The light-emitting device comprising:

a compound semiconductor layer having a light-emitting layer portion, being configured so that a first main surface of which serves as a light extraction surface; wherein the light-emitting layer portion is configured as having a double heterostructure in which a first-conductivity-type cladding layer, an active layer and a second-conductivity-type cladding layer, all of these layers being composed of $(\text{Al}_x\text{Ga}_{1-x})_y\text{In}_{1-y}\text{P}$ (where, $0 \leq x \leq 1$ and $0 \leq y \leq 1$), are stacked in this order; and

a device substrate bonded on a second main surface side of the compound semiconductor layer while placing a main metal layer in between, the main metal layer having a reflective surface for reflecting light from the light-emitting layer portion back towards the light extraction surface side; further comprising:

a diffusion-blocking layer having only Ti as a major component interposed between the device substrate and the main metal layer, being composed of a conductive material, and provided for blocking diffusion of any device-substrate-derived components towards the main metal layer;

further comprising a substrate-side contact metal layer interposed between the diffusion-blocking layer and the device substrate, intended for reducing contact resistance between the device substrate and the diffusion-blocking layer; and

wherein the main metal layer is composed of an Ag-base layer having Ag as a major component, at least in a portion including the interface with the diffusion-blocking layer, and the device substrate is a Si substrate.

34. (Canceled)

35. (Currently Amended) The light-emitting device as claimed in ~~Claim 34~~, Claim 33, wherein the metal layer for blocking diffusion has a thickness of 1 nm to 10 μm , both ends inclusive.

36. (Previously Presented) The light-emitting device as claimed in Claim 33, wherein the device substrate is an n-type Si substrate, and further comprises a substrate-side contact metal layer interposed between the diffusion-blocking layer and the Si substrate, being composed of an AgSb alloy or an AgSn alloy, and being intended for reducing contact resistance between the Si substrate and the diffusion-blocking layer.

37. (Original) The light-emitting device as claimed in Claim 33, wherein the Au-base layer composes the reflective layer.

38. (Currently Amended) A light-emitting device comprising:
a compound semiconductor layer having a light-emitting layer portion, being configured so that a first main surface of which serves as a light extraction surface;
wherein the light-emitting layer portion is configured as having a double heterostructure in which a first-conductivity-type cladding layer, an active layer and a second-conductivity-type cladding layer, all of these layers being composed of $(\text{Al}_x\text{Ga}_{1-x})_y\text{In}_{1-y}\text{P}$ (where, $0 \leq x \leq 1$ and $0 \leq y \leq 1$), are stacked in this order; and

a device substrate bonded on a second main surface side of the compound semiconductor layer while placing a main metal layer in between, the main metal layer having a reflective surface for reflecting light from the light-emitting layer portion back towards the light extraction surface side; further comprising;

a diffusion-blocking layer having only Ti as a major component interposed between the device substrate and the main metal layer, ~~being composed of a conductive material~~, and provided for blocking diffusion of any device-substrate-derived components towards the main metal layer;

wherein, the main metal layer is composed of an Ag-base, composed of pure Ag, or an Ag alloy having a ratio of Ag content ratio of 95% by mass or above, at least in a portion including the interface with the diffusion-blocking layer, and the device substrate is a Si substrate; and

wherein an Ag-base layer interposed between the Au-base layer and the compound semiconductor layer, and having Ag as a major component, composes the reflective layer.

39-90. (Canceled)

91. (Currently Amended) The light-emitting device comprising:

a compound semiconductor layer having a light-emitting layer portion, being configured so that a first main surface of which serves as a light extraction surface; wherein the light-emitting layer portion is configured as having a double heterostructure in which a first-conductivity-type cladding layer, an active layer and a second-conductivity-type cladding layer, all of these layers being composed of $(\text{Al}_x\text{Ga}_{1-x})_y\text{In}_{1-y}\text{P}$ (where, $0 \leq x \leq 1$ and $0 \leq y \leq 1$), are stacked in this order; and

a device substrate bonded on a second main surface side of the compound semiconductor layer while placing a main metal layer in between, the main metal layer having a reflective surface for reflecting light from the light-emitting layer portion back towards the light extraction surface side; further comprising:

a diffusion-blocking layer having only Ti as a major component interposed between the device substrate and the main metal layer, ~~being composed of a conductive material,~~ and provided for blocking diffusion of any device-substrate-derived components towards the main metal layer;

further comprising a substrate-side contact metal layer interposed between the diffusion-blocking layer and the device substrate, intended for reducing contact resistance between the device substrate and the diffusion-blocking layer;

wherein the main metal layer is composed of an Ag-base layer and an Au-base layer having Au as a major component, at least in a portion including the interface with the diffusion-blocking layer, and the device substrate is a Si substrate.

92. (Canceled)

93. (Currently Amended) The light-emitting device as claimed in ~~Claim 92~~, Claim 91, wherein the metal layer for blocking diffusion has a thickness of 1 nm to 10 μm , both ends inclusive.

94. (Previously Presented) The light-emitting device as claimed in Claim 91, wherein the device substrate is an n-type Si substrate, and further comprises a substrate-side contact metal layer interposed between the diffusion-blocking layer and the Si substrate, being composed of an AuSb alloy or an AuSn alloy, and being intended for reducing contact resistance between the Si substrate and the diffusion-blocking layer.

95. (Previously Presented) The light-emitting device as claimed in Claim 91, wherein the Ag-base layer composes the reflective layer.